

FIG. 1
Prior Art

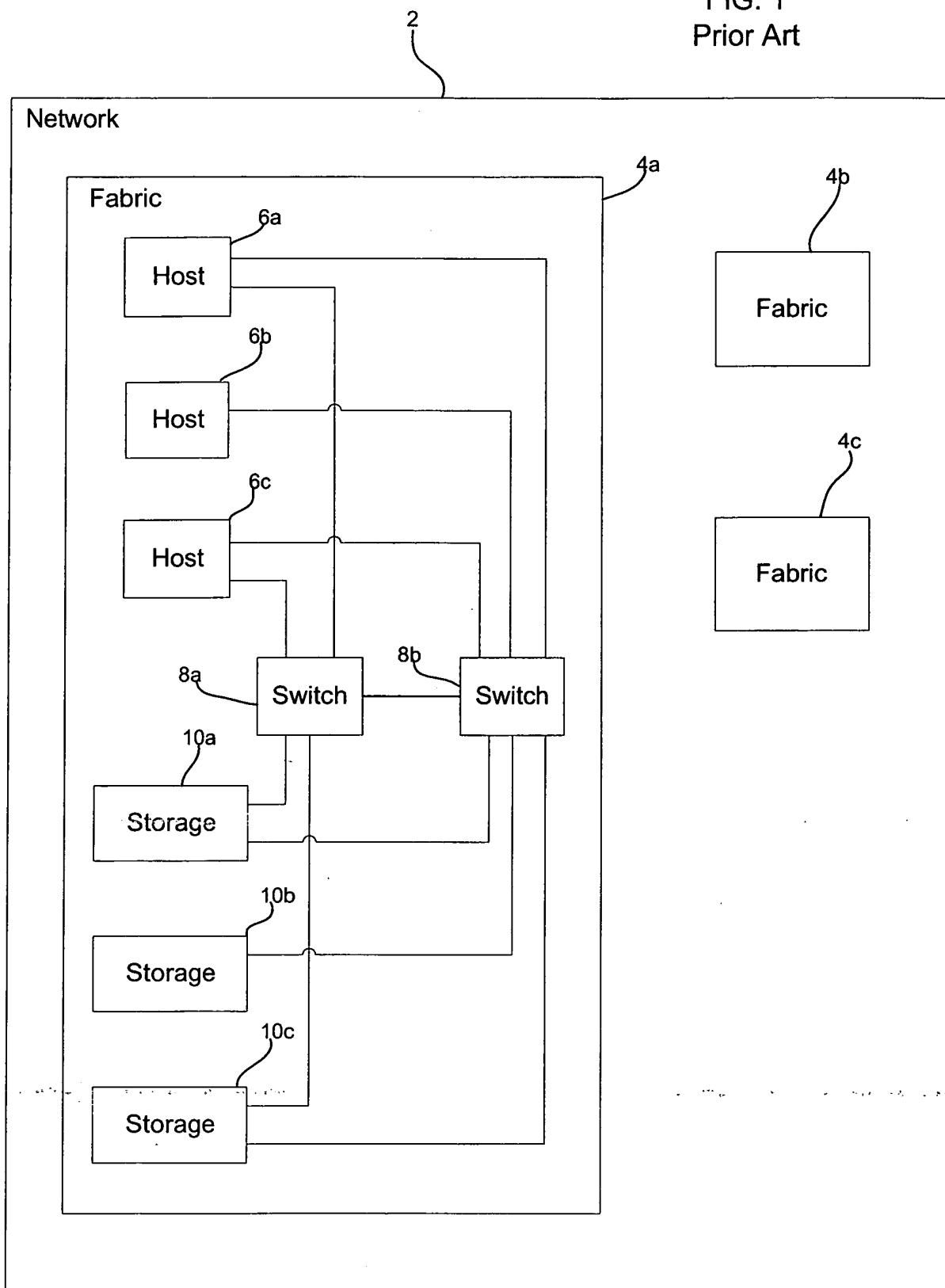


FIG. 2

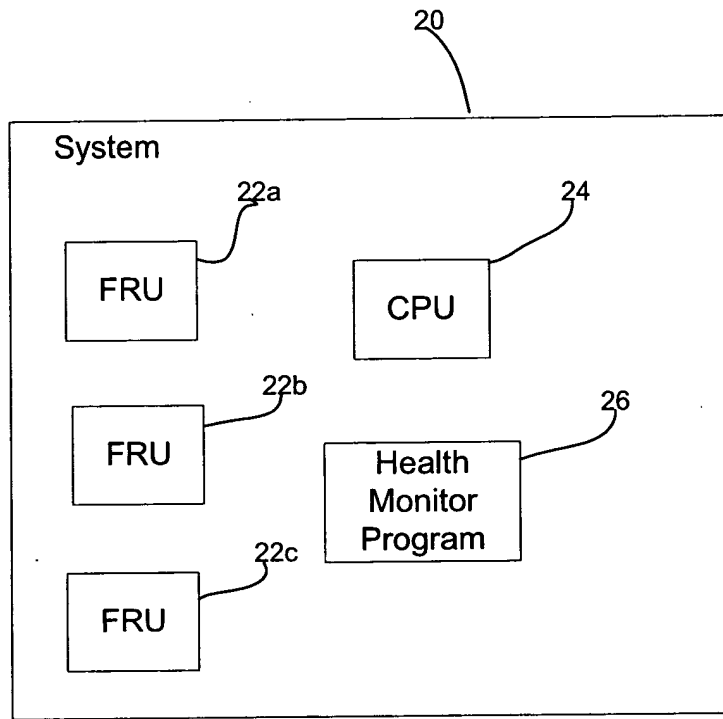


FIG. 3

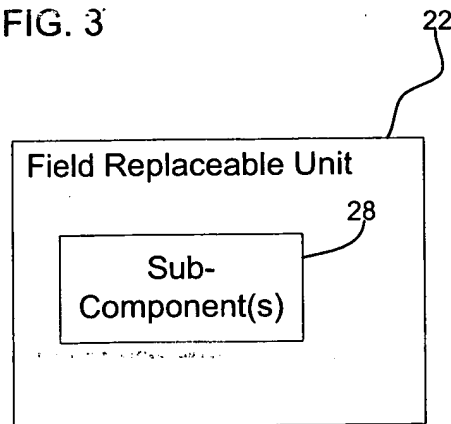


FIG. 4

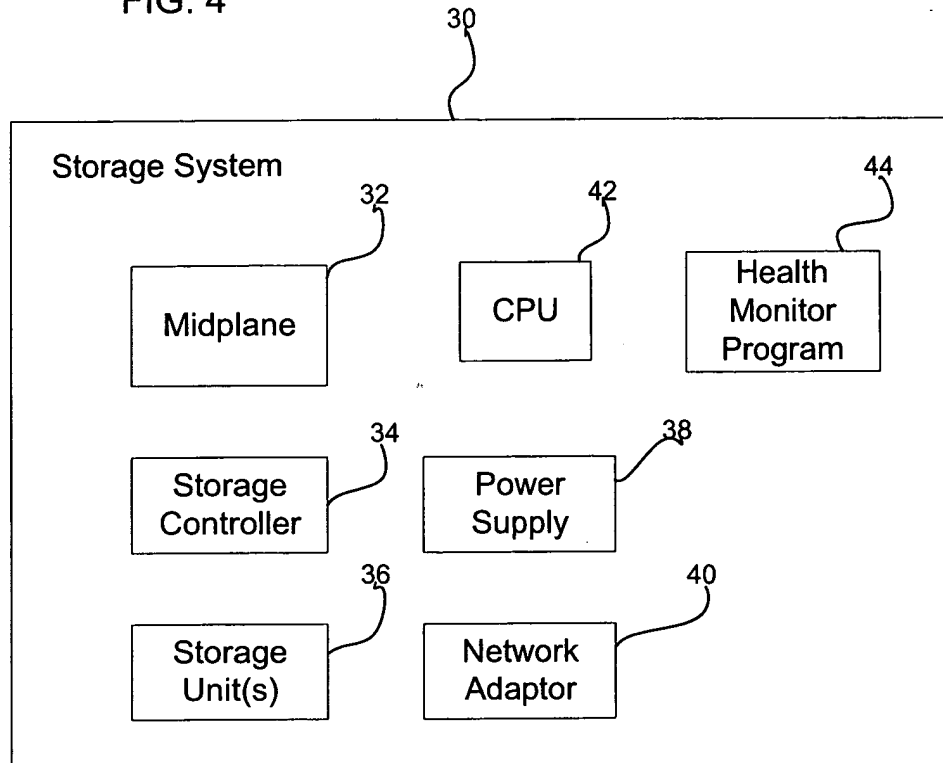
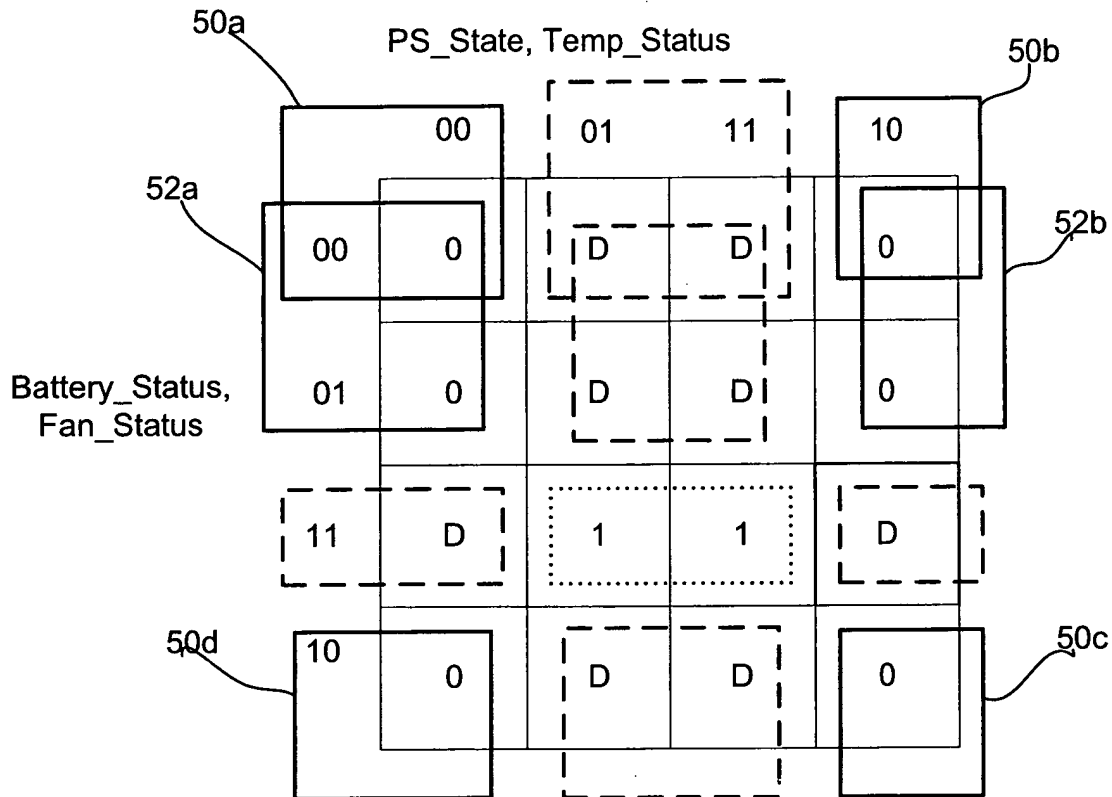


FIG. 5

Truth Table for Power Supply

| <i>PS_State</i> | <i>Temp_Status</i> | <i>Battery_Status</i> | <i>Fan_Status</i> | <i>Output State</i> |
|-----------------|--------------------|-----------------------|-------------------|---------------------|
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 |
| 0 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1 | D |
| 0 | 1 | 0 | 0 | D |
| 0 | 1 | 0 | 1 | D |
| 0 | 1 | 1 | 0 | D |
| 0 | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 |
| 1 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 1 | D |
| 1 | 1 | 0 | 0 | D |
| 1 | 1 | 0 | 1 | D |
| 1 | 1 | 1 | 0 | D |
| 1 | 1 | 1 | 1 | 1 |

FIG. 6



Legend

Bad ——— Degraded - - - - - Good ·······

FIG. 7

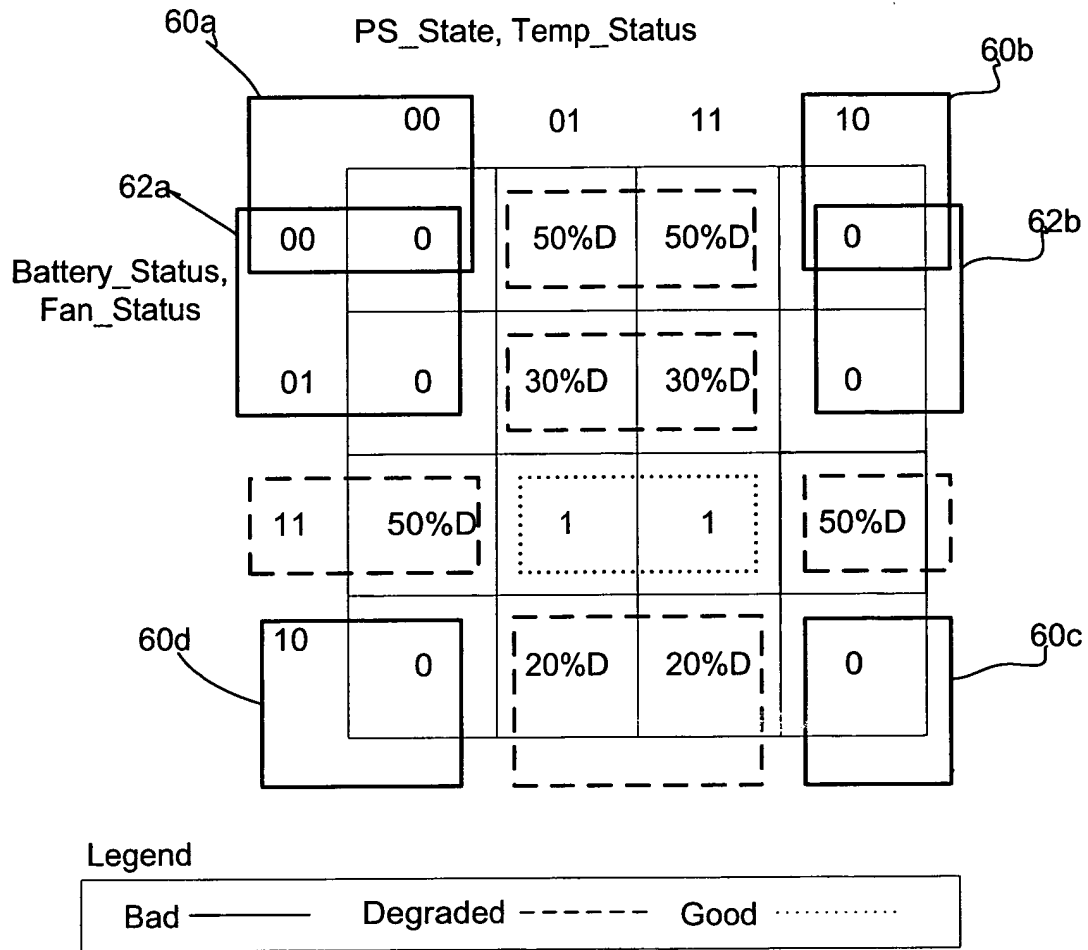
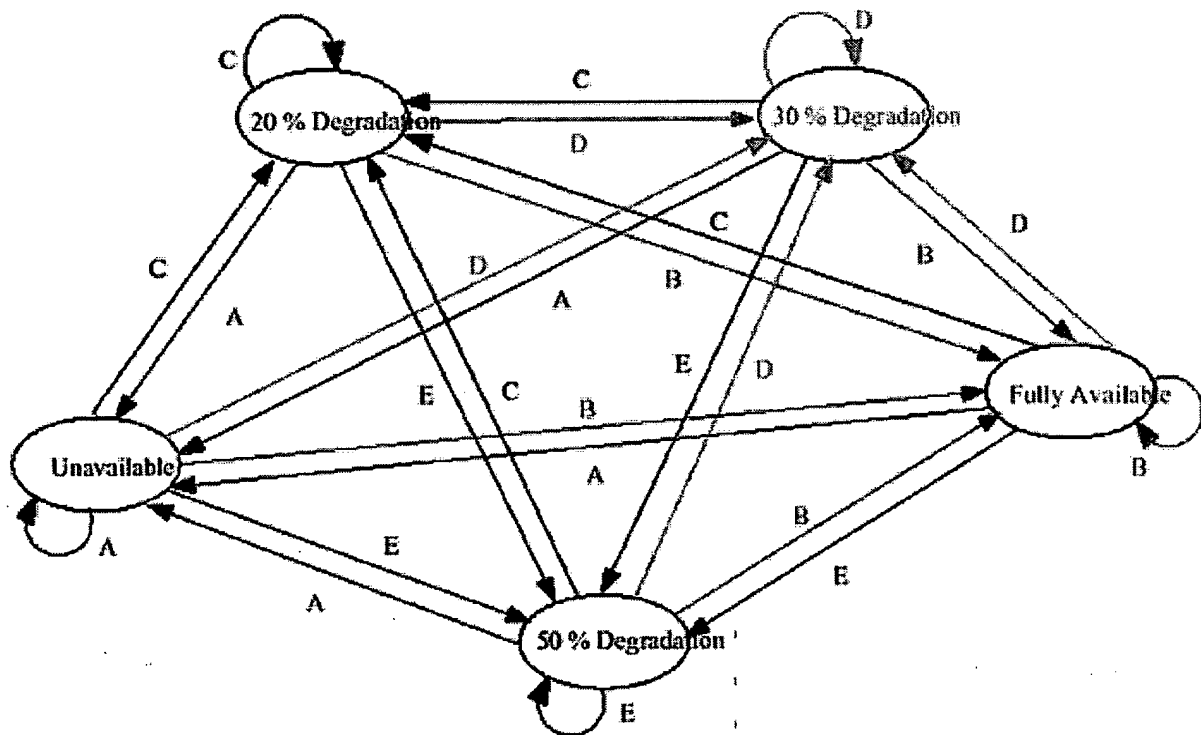


FIG. 8



| | |
|--|---|
| Equation A (Power Supply is Bad) | $[Temp_Status] * [Battery_Status * Fan_Status]$ |
| Equation B: (Power Supply is Good) | $Temp_Status * Battery_Status * Fan_Status$ |
| Equation C (20% Degradation in Power Supply) | $Temp_Status * Battery_Status * [Fan_Status]$ |
| Equation D (30% Degradation in Power Supply) | $Temp_Status * [Battery_Status] * Fan_Status$ |
| Equation E (50% Degradation in Power Supply) | $[(Temp_Status * Battery_Status * Fan_Status) + (Temp_Status * [Battery_Status] * [Fan_Status])]$ |

FIG. 9

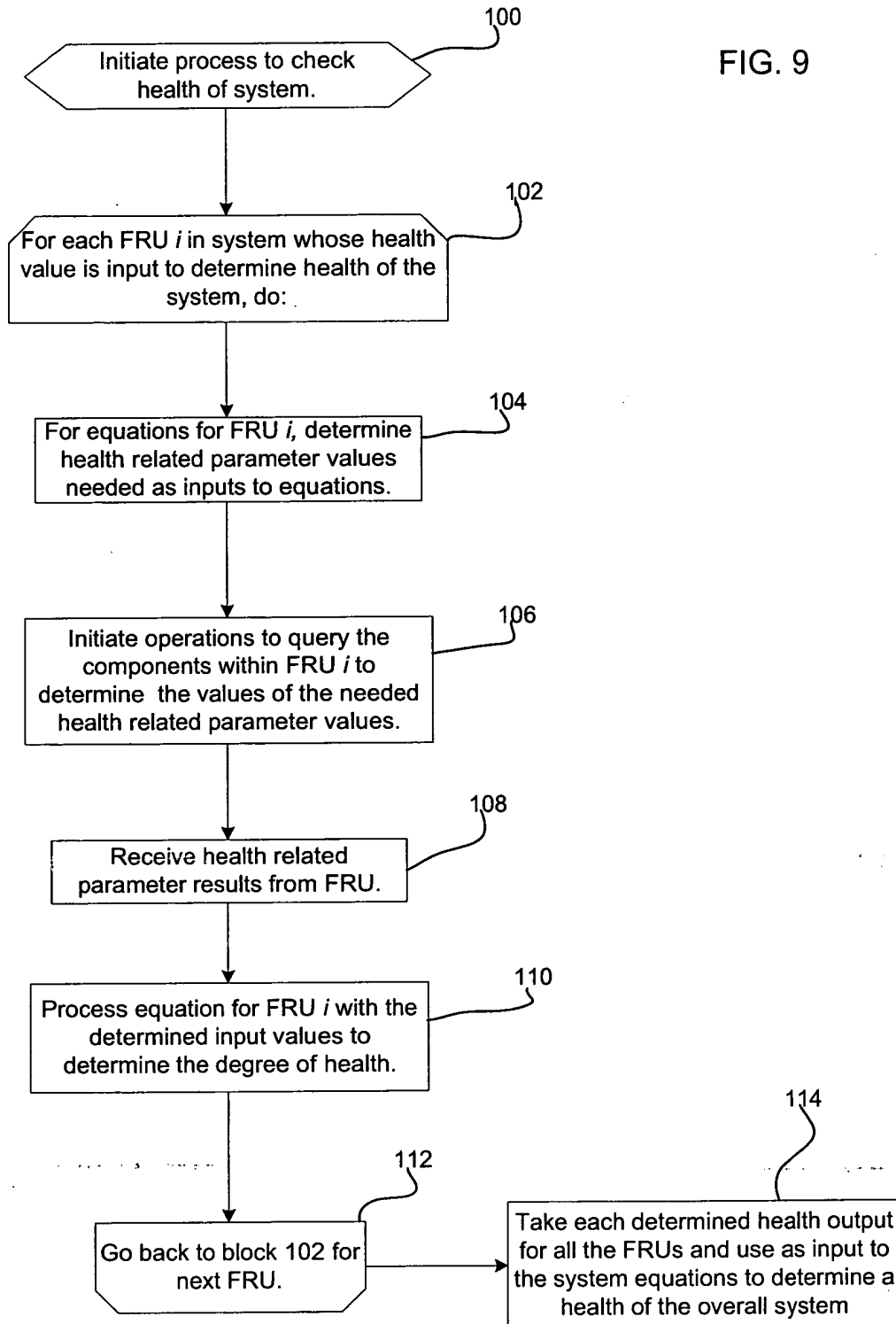


FIG. 10

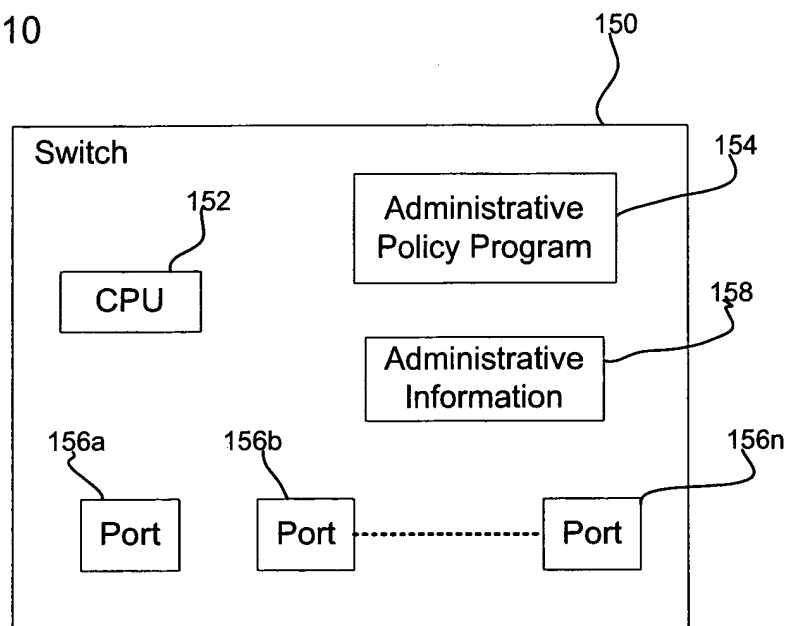


FIG. 11

Administrative Policy Truth Table

| <i>Previous Admin State</i> | <i>Previous Oper State</i> | <i>Current Admin State</i> | <i>Current Oper State</i> | <i>Alert Clear</i> | <i>Alert Create</i> | <i>Event</i> |
|-----------------------------|----------------------------|----------------------------|---------------------------|--------------------|---------------------|--------------|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 0 | 1 | 1 |
| 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 | 1 | 0 | 1 |
| 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 1 | 1 | 0 | 1 | 0 | 0 | 1 |
| 1 | 1 | 1 | 0 | 0 | 1 | 1 |
| 1 | 1 | 1 | 1 | 0 | 0 | 0 |

FIG. 12

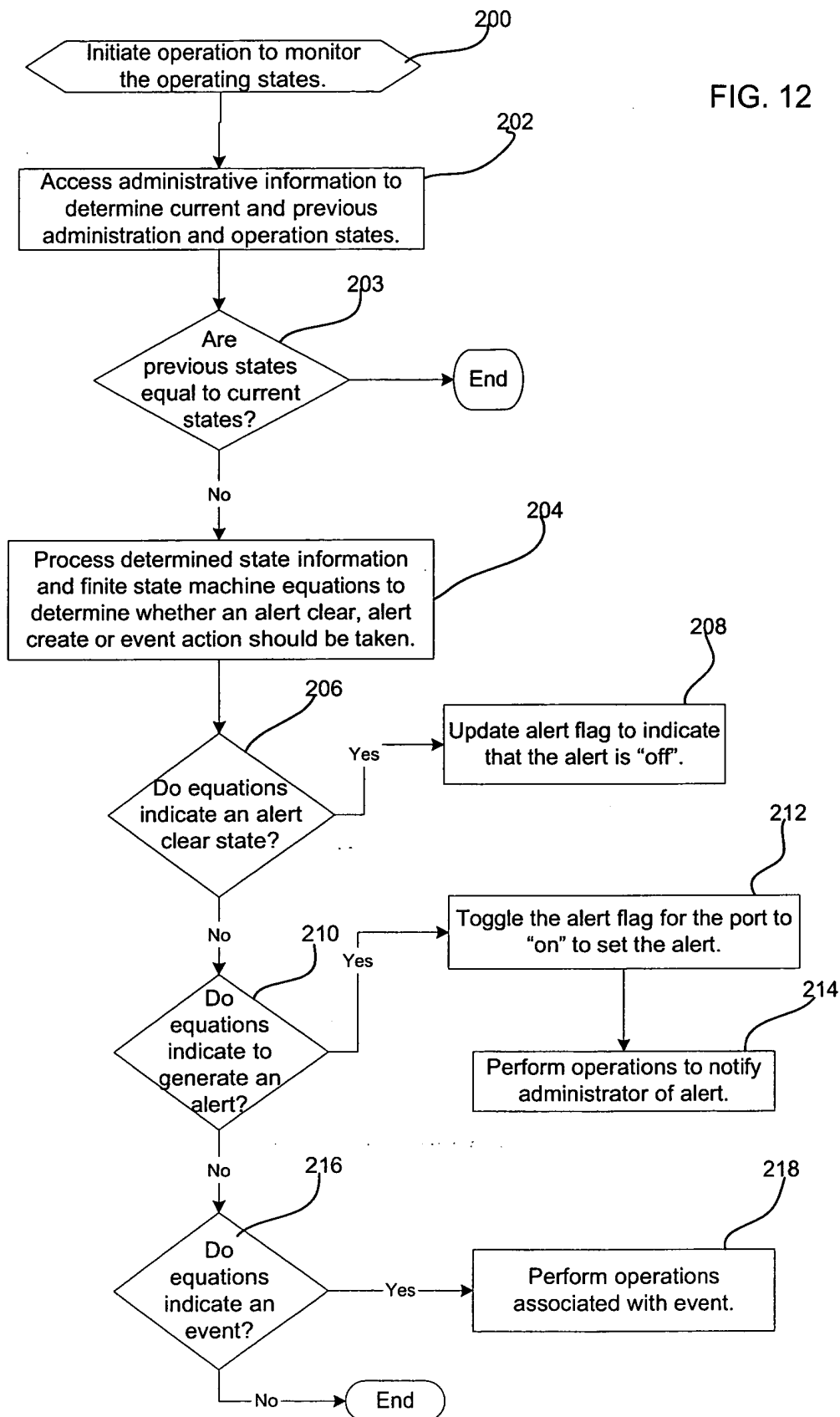


FIG. 13

